"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

KHUBANOVA, D., d-r; PENCHEV, V.

Composition and nutrient properties of cucumbers. Prir i znanie 15 no.8:4-8 Ag '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V., d-r

Chemical composition and healing properties of celery. Prir i znanie 15 no.9:4-8 N '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

L 61879-65 EWI(m)/EPF(c)/I Pr-4 WE

ACCESSION NR: AP5017010 UR/0204/64/004/005/0813/0818

AUTHOR: Shopov, D.; Penchev, Vl.; Davidova, N.

TITLE: Composition of the solid hydrocarbons of petroleum

SOURCE: Neftekhimiya, v. 4, no. 5, 1964, 813-818

TOPIC TAGS: petroleum, hydrocarbon, paraffin wax, chemical composition

ABSTRACT: The naphthenic-aromatic solid hydrocarbons of petroleum of the Tyulenovo region (Bulgaria) were investigated by dewaxing the deasphalted

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L 11878-65

ACCESSION NR: AP5017010

[illegible] hydrocarbons is negligible in comparison with the [illegible]

Orig. art has: [illegible]

ASSOCIATION: Institut organicheskoy [illegible] Bolgarskoy Akademii [illegible]
of Organic Chemistry, Bulgarian Academy [illegible]

SUBMITTED: 24Feb64

NO REF SOV: 006 OTHER: 006 JPRS

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V.

"Investigation of the heavy residue from petroleum of the Tiulenovo deposits."

p. 36. (Khimiia I Industriia, vol. 30, no. 2, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 12, Dec 58

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

BULGARIA/Chemical Technology. Chemical Products and Their Applications. Chemical Processing of Natural Gases and Petroleum. Motor and Rocket Fuels. Lubricants. II

Abs Jour: Ref Zhur-Khim., No 8, 1959, 28931.

Author : Penchev, V.
Inst :
Title : The Coking of Seal Oil Tar.

Orig Pub: Tezhka Promishlenost, 7, No 3, 18-20 (1958) (in Bulgarian)

Abstract: The coking of 33% seal oil tar [sic] by a semicontinuous process has been investigated at temperatures of 490-565°. When the process temperature is increased, the yield of gaseous products is increased from 9.0 to 21.5% and the yield of gasoline (G) is

Card : 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V.; SHOPOV, D.; DAVIDOVA, N.

Kinetics of catalytic cracking of kerosene-gasoil fraction of oil around Pleven. Doklady BAN 16 no.6:629-632 '63.

1. Submitted by Corresponding Member B. Kourtev [Kurtev, B.].

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V.

Normal paraffin hydrocarbons in the 25-307°C fraction of oil obtained from Pleven region. Doklady BAN 16 no.6:633-636 '63.

1. Submitted by Corresponding Member B.Kourtev [Kurtev, B.].

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

SHOPOV, D.; PENCHEV, V.; ANDREEV, A.

Hydrocarbon changes in hydrocarbon naphthene-paraffin part of fraction 400-450° of Tyulenovo oil after-low-temperature catalytic treatment. Doklady BAN 16 no.1:81-84 '63.

1. Submitted by Corresponding Member B. Kourtev [Kurtev, B.].

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V., d-r

Biological significance of microelements. Biol i khim 5 no.1: 8-13 '63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V., d-r

Ultrastructures of the cell. Biol i khim 7 no.5:9-17 '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, V. Zh. Cand Tech Sci -- (diss) "A Study of the Heavy Residues of Bulgarian Petroleum from the Tyule Deposit and of the Ways and Means for their Rational Processing." Mos, 1957. 10 pp 22 cm. (Min of Higher Education SSSR, Mos Order of Labor Red Banner Petroleum Inst im Academician I. M. Gubkin, Chair of Technology of Petroleum and Gas Engineering), 120 copies (KL, 18-57, 96)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, Vl.

Some problems in the chemistry and technology of oxidized bitumens. Izv Inst khim BAN no.8:209-223 '61.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

L 6[illegible]50-65 EWT(m)/EWA(h)
ACCESSION NR: AP5023143 BU/0012/64/007/003/0195/0199

AUTHOR: Ganchev, Mikhail; Penchev, Vladimir; Popits, Robert

TITLE: Measurement of individual doses of x-rays using film dosimetry

SOURCE: Fiziko-matematicheska spisanie, v. 7, no. 3, 1964, 195-199

TOPIC TAGS: x ray, radiation dosimetry

Abstract: After explaining the theoretical basis and describing the practical applications of film dosimetry, the authors report that during [illegible] 15 May - 15 October 1961 and 1 October 1962 - 30 July 1963 they processed 3378 "Adox" films exposed by 200 members of the X-ray personnel at [illegible] medical institutions. [illegible]% showed [illegible] monthly [illegible], [illegible] 200 mr, [illegible] between 201 and 400 mr, while [illegible] [illegible] of 400 mr. Orig. art. has 2 figures, 5 graphs, and 1 table.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: GP, NP

NO REF SOV: 000 OTHER: 000

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

GANCHEV, Mikhail; PENCHEV, Vladimir; POPITS, Robert

Measuring individual doses of X-ray radiation by the method of film dosimetry. Fiz mat spisanie BAN 7 no.3:195-199 '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENTCHEVA, E.[Pencheva, E.]

Microchemical criterion characterizing nitrogenous hot springs of Bulgaria. Doklady BAN 17 no.11:1021-1024 '64.

1. Geologic Institute of the Bulgarian Academy of Sciences. Submitted June 26, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PETROV, P.; PENCHEVA, E.; IOTOV, I.; PAVLOVA, V.

Mineral waters in the region of the Gotse Delchev Valley. Trudove vurkhu inzh geol khidrol 3:187-205 '64.

1. Submitted December 4, 1963.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, Ye. [Pencheva, E.]; PETROV, P.

Geochemical studies of helium and argon in natural gases of northern Bulgaria. Doklady BAN 17 no.11:1039-1042 '64.

1. Geologic Institute of the Bulgarian Academy of Sciences. Submitted July 15, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

L 42549-65 EPF(c)/EWP(j)/EWA(h) Pc-4 IJP(c) JD BU/0011/64/017/011/1039/1042

ACCESSION NR: AP5021293

AUTHOR: Pencheva, E.; Petrov, P.

TITLE: Geochemical studies of helium and argon in natural gases found in northern Bulgaria

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 17, no. 11, 1039-1042

TOPIC TAGS: helium, argon, natural gas, geochemistry, prospecting

ABSTRACT: Geological prospecting in Northern Bulgaria carried out by the Main Administration for Geological Prospecting uncovered several previously unknown sites of natural gas. The abundance of He and Ar were studied at 12 sites and the results (presented in the form of a table) show that the increased helium content at some of the sites may warrant an industrial exploitation of He. Orig. art. has: 1 table.

ASSOCIATION: Institut geologii Bolgarskoy akademii nauk (Institute of Geology, Bulgarian Academy of Sciences)

SUBMITTED: 00 ENCL: 00 SUB CODE: ES, IC

NR REF SOV: 003 OTHER: 005 JPRS

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PETROV, P. St.; PENCHEVA, E.N.; PAVLOVA, V.N.

Geochemical studies of natural gases from thermal springs in the valley of the Struma River. Izv Geol inst BAN 12:245-256 '63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, N.P.; PENCHEVA, E.N.

Manometric determination of helium in nautral gases. Izv Geol inst BAN 12:257-266 '63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PETROV, P.St.; PENCHEVA, E.N.

Hydrochemistry of the rare and dispersed elements in Bulgarian mineral waters. Izv Geol inst BAN 10:267-301 '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, E. N.

Distribution of the rare and dispersed elements in the hot mineral water of the Rila- Rhodope Mountains region. Izv Geol inst BAN no.9: 91-120 '61.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, E.N.

Spectrographic research on the microelements of the mineral waters in the Chepino River Valley. Izv Geol inst BAN 8:193-221 '60. (EEAI 10:5)

(Bulgaria--Mineral waters)
(Spectrum analysis)
(Trace elements)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, E.N.

Distribution of the rare elements in the thermomineral waters of the Rila-Rhodope region. Izv Geol inst BAN 9:91-120 '61.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, E.N.; PAVLOVA, V.N.

Trace elements in the brine of the Pomorie Lake. Trudove vurkhu inzh geol khidrol 3:207-?22 '64.

1. Submitted December 4, 1963.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

Pencheva, P.

"Vietnam Republic", P. 17
(GEOGRAFIIA, Vol. 4, No. 8, 1954 - Bulgaria)

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Apr. 1955, Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEV, N.P. (Sofiya, Bolgariya); PENCHEVA, Ye.N.(Sofiya, Bolgariya); BONCHEV, P.R. (Sofiya, Bolgariya)

Chemical composition of the Gumoshnik meteorite. Meteoritika no.18:144-146 '60. (MIRA 13:5)
(Troyan Mountains (Bulgaria)--Meteorites)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, P.

"Caspian Sea, the largest lake in the world." (p.6). GEOGRAFIIA (Bulgarsko Geografsko Druzhestvo) Sofiya, Vol 4 No 1 1954

SO: East European Accessions List, Vol 3 No 8 Aug 1954

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

KHUBANOVA, D., d-r; PENCHEV, V.

Composition and nutrient properties of lettuce. Prir i znanie 16 no.7:12-16 S '63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PRN Chem/A, Yu. N.

FRAME I BOOK EXPLOITATION SOV/4239
SOV/57-5-38

Akademiya nauk SSSR. Komitet po meteoritam

Meteoritika; chornik statey, vyp. 13 (Meteorites; Collection of Articles, No. 13) Moscow, AN SSSR, 1960. 1,200 copies printed.

Ed.: V.G. Fesenkov, Academician; Deputy Resp. Ed.: Ye.L. Krinov; Ed. of Publishing House: I.Ye. Rabkin; Tech. Ed.: A.P. Gusera.

PURPOSE: This publication is intended for astrophysicists, astronomers, and geologists, particularly those interested in the study of meteorites.

COVERAGE: This collection of 26 articles on problems in meteoritics includes the Transactions of the Eighth Meteoritic Conference which took place in Moscow, June 3 - 5, 1958. An introductory article reviews recent progress in the field, particularly in the matter of determining the age of meteorites. Individual articles discuss the fall, physical and chemical properties, and age of meteorites. The danger presented by meteors to artificial earth satellites is discussed. V.G. Fesenkov describes the theory and advises computations for determining the distribution of ozone in the atmosphere during lunar eclipses. References accompany individual articles.

ARTICLES

Fesenkov, V.G., Academician. On the Theory of Lunar Eclipses 125

Krinov, Ye.L. Some Considerations on the Collection of Meteoric Substance in Polar Regions 135

Kaforenkovy, I.K. Mass-Spectral Determination of Inert Gases in Iron 141

Dachev, Ts.P., Dimitrova, Vasileva and Kovachev, P.P. (Sofia, Bulgaria) On the Chemical Composition of the Osmobuk Meteorite (Bulgaria) 144

Tuttle, I.A. Mineralographic Investigation of the Nikol'skoye Stone Meteorite 147

Kolomenskiy V.D. Results of the Roentgenometric Investigation of the Nikol'skoye Stone Meteorite 155

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

COUNTRY : Bulgaria D
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 85930

AUTHOR : Penchev, N.P.; Pencheva, Ye.N.; Bonchev, P.R.
INST. : Bulgarian Academy of Sciences
TITLE : Spectrographic Study of Trace-Components of Bulgarian Mineral Waters.

ORIG. PUB. : Dokl. Bolg. AN, 1958, 11, No 5, 375-377

ABSTRACT : In the most widely known Bulgarian mineral waters a qualitative and semi-quantitative determination was made, by means of spectrographic analysis, of more than 20 trace-components. Of these, Cu, Pb, Fe, Al, Ti, and Sr are found in all, or almost all, the waters under study. Mn, Zn, V, Ag, are encountered very frequently. A certain regularity is observed between the content of Mo, Ga, Ge, W, Li, and Ba, and the general hydrochemical characteristics of the water. In the case of some of the waters there is found a correlation between Li-content and the amount of He in the gases associated with the water. Cr and Ni are encountered in a few instances, in relatively

CARD: smaller amounts;Co, Be, Sb are quite rare. Data concerning B are not reliable. -- V. Konshin.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVA, ZH.

TANCHEV, I.; EVSTATIEV, TSv.; DORSIEV, D.; PENCHEVA, ZH.; TSVETKOV, G.

Study of nephritis in Vrattsa district. Suvrem. med., Sofia 7 no.9: 14-29 1956.

1. Iz Okruzhnata bolnitsa "Khristo Botev" - Vratsa (Gl. lekar: P. Koler).
(NEPHRITIS, statist.
in Bulgaria)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHEVSKIY, I.M., mayor

Relay race in tactics and firing. Voen. vest. 41 no.9:77-78 S '61. (MIRA 15:1)

(Infantry drill and tactics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHKO, N.A.

[Founding of Moscow University] Osnovanie Moskovskogo universiteta. [Moskva] Izd-vo Moskovskogo universiteta, 1953. 191 p. (MLRA 6:8)
(Moscow University--History)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

1. PENCHKO, N. A.

2. USSR (600)

4. Gogol' Nikolai Vasil'evich, 1809-1852.

7. N. V. Gogol's connection with Moscow University. Vest. Mosk. un. 7 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

S/032/61/027/002/020/026
B101/B209

AUTHOR: Penchko, Ye.A.

TITLE: Measurement of pressures down to 10^{-2} mm Hg by means of an LM-2 pressure gauge

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 2, 1961, 214 - 215

TEXT: By means of the ЛМ-2 (LM-2) pressure gauge, pressures down to initiation of electric discharge (5.10^{-2} mm Hg) may be theoretically measured. However, the useful measuring range is shorter since already at $(2-3).10^{-3}$ mm Hg a large deviation from linearity occurs as a consequence of a high space charge. By reducing the emission of the pressure-gauge cathode from 5 to 0.5 ma, pressures higher by one order of magnitude may be measured. The required reconstruction of the ВИ-3 (VI-3) or ВИТ-1 (VIT-1) vacuum gauge concerns only the circuit of the emission current and the setting of the stabilizer to the new conditions. After reconstruction it was found that emission current stabilization is appreciable down

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

to 10^{-3} mm Hg but becomes less stable in the range between 10^{-3} and 10^{-2} mm Hg. Therefore the emission current has to be regulated before every measurement. The linear dependence between emission current and gas pressure was maintained until 7.10^{-3} mm Hg. The relative sensitivity coefficient, referred to air = 1, was 1.53 for CO_2. The lower limit of sensitivity (5.10^{-7} mm Hg) remained unchanged. The stability test of two pressure gauges in the range of $(2-3).10^{-3}$ mm Hg gave satisfactory results. The modified LM-2 pressure gauge may be used instead of the ЛТ-2 (LT-2) mercury pressure gauge in the range between 10^{-3} and 10^{-2} mm Hg if precise measurement is required. However, the lifetime of the pressure gauge decreases considerably with increasing pressure (particularly oxygen pressure), because at 10^{-2} mm Hg the cathode burns out after 2.5 hr. There is 1 figure.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

ACCESSION NR: AP4018381 S/0120/64/000/001/0146/0151

AUTHOR: Penchko, Ye. A.; Rafal'son, A. E.; Tsy*mberov, M. Ya.

TITLE: Ionization manometer for 1 to 10^{-5} torr range

SOURCE: Pribory* i tekhnika eksperimenta, no. 1, 1964, 146-151

TOPIC TAGS: manometer, ionization manometer, dismountable manometer, wide-range vacuumeter, vacuumeter

ABSTRACT: An improvement of Ye. A. Penchko's ionization gauge consisting of a cathode and three parallel disks (anode-collector cross-fields) is described (see PTE, 1961, no. 1, p. 170) which permits easy dismemberment in case of a cathode replacement. Design details are reported. Anode-collector voltage, 216 v; cathode-collector voltage, 68 v; cathode emission current, 100 microamp; heater voltage, 1.1 v; heater current, 3 amp. A special vacuumeter (electric circuit diagram presented) is used for supplying the gauge and for measuring the

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

ACCESSION NR: AP4018381

ion current. It is claimed that, with supply-voltage variations of ± 15% and a pressure within the $1 - 10^{-5}$ torr range, the emission current varies only to within ± 2%. It is reported that the instrument was in actual operation for over 500 hrs with no cathode burnout, leak, or other trouble. Orig. art. has: 6 figures and 3 formulas.

ASSOCIATION: SKB Analiticheskogo priborostroyeniya AN SSSR (SKB of Analytical Instrument Designing, AN SSSR)

SUBMITTED: 22Feb63 DATE ACQ: 18Mar64 ENCL: 00

SUB CODE: PH NO REF SOV: 002 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

SOV/120-59-4-38/50

AUTHORS: Penchko, Ye. A., Khavkin, L. P., Borodkin, A. S.

TITLE: Production of Extremely High Vacua

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 4, p 146 (USSR)

ABSTRACT: Some tests are reported on a sealed tetrode ionization gauge immersed in liquid helium at 1.9°K. The gauge is sealed off at 10^{-6} mm Hg; the limiting pressure recorded is about 3×10^{-9} mm Hg, and the approach to that limiting pressure is such as to indicate that two distinct groups of gases are involved. This residual pressure has two causes: 1) the filament heats the glass bulb and releases gas (this cause is removed by using a bulb consisting almost entirely of copper), and 2) the residual gas in the bulb (at 10^{-6} mm Hg), which is released when the stem

Card 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

Production of Extremely High Vacua

is sealed, contains sufficient He to correspond to a pressure of about 8×10^{-10} mm Hg. The paper contains 2 references, 1 of which is Soviet and 1 English.

SUBMITTED: May 22, 1958.

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHKO, Ye.A.

Air-proof ionization manometer. Prib. i tekh. eksp. 6 no.1: 170-173 Ja-F '61. (MIRA 14:9)
(Manometer)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

20710

S/120/61/000/001/052/062
E032/E114

26,2212

AUTHOR: Penchko, Ye.A.

TITLE: Stable-Cathode Ionisation Gauge

PERIODICAL: Pribory i tekhnika eksperimenta, 1961, No.1, pp.170-173

TEXT: The manometer is shown schematically in Fig.1. The anode and the collector are in the form of two nickel plates mounted on rigid kovar leads. The envelope is made of 3C -5 (ZS-5) glass. Fig.3 shows the dimensions of the directly heated cathode. The cathode consists of an iridium core covered by a layer of ThO_2 or Y_2O_3. The gauge is operated under the following conditions: anode-collector potential difference + 216 V, cathode-collector potential difference + 68 V, emission current from the cathode 10^{-4} A, cathode supply voltage 1.1-1.5 V, heating current 1.4-1.7 A. The gauge works in conjunction with a specially designed control unit consisting of a power pack, an ion current amplifier and gauge-head supplies. The balanced ion-current amplifier measures currents between 10^{-9} and 10^{-4} A. The ionization gauge can be used to measure air, nitrogen, hydrogen and helium gas pressures between 10^{-5} and 1 mm Hg. The ion current at

Card 1/4

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHKO, Ye.A.; RAFAL'SON, A.E.; TSYMBEROV, M.Ya.

Ionization gauge for the range 1 ÷ 1.10^{-5} torr. Prib. i tekh. eksp. 9 no.1:146-151 Ja-F '64. (MIRA 17:4)

1. Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya AN SSSR.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

SOV/120-59-1-31/50

AUTHORS: Penchko, Ye. A., Khavkin, L. P.

TITLE: A Tetrode Ionisation Manometer (Tetrodnyy ionizatsionnyy manometr)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, pp 128-129 (USSR)

ABSTRACT: The ion current in an ionisation manometer is proportional to the anode current and the gas pressure. The constant of proportionality depends on the form and the dimensions of the electrodes and the potentials applied to them. In order that the ion current should be a linear function of the pressure it is necessary to keep constant both the anode current and the working potentials applied to the electrodes. The voltages can be quite easily stabilized but the stabilization of the anode current is more difficult. In some cases the anode current is stabilized by means of negative feedback between the anode current and the heater currents as shown in Fig 1. This device is not very convenient in practice. The device now described (Fig 2) is more convenient. The device uses a tetrode working in the space-charge region. Negative feedback is used to stabilize the anode current as shown in Fig 2. Typical electrode assemblies are shown in Fig 4. The manometer with a cylindrical collector (on the right) is designed

Card 1/3

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

A Tetrode Ionisation Manometer

for use between 10^{-7} and 10^{-3} mm Hg. It has a tungsten cathode 0.04 mm in diameter. The control grid and the anode grid are coaxial and made of nickel wire 0.2 mm in diameter. The collector is in the form of a cylinder 28 mm in diameter. The manometer with the axial collector is designed for the pressure range 10^{-9} - 10^{-4} mm Hg. It has a tungsten cathode 0.05 mm in diameter placed asymmetrically on the periphery. The cylindrical anode grid is made of nickel wire 0.2 mm in diameter. The control grid is plane and is placed between the cathode and the anode grid at a distance of 2 mm from each. It is also made from nickel wire. The collector is 0.1 mm in diameter and is made of tungsten. It is placed along the axis of the anode grid. The working values of the various parameters are given in the table on p 129. The latter manometer

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SOV/120-59-1-31/50

A Tetrode Ionisation Manometer

is similar to that described by Bayard and Alpert (Ref 1). There are 4 figures, 1 table and 1 English reference.

SUBMITTED: January 2, 1958.

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHKO, Ye.A.

IM-2 manometer for measuring pressures up to 10^{-2} mm. Hg.
Zav.lab. 27 no.2:214-215 '61. (MIRA 14:3)
(Pressure--Measurements)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHKO, Ye.A.

Transistor stabilizer of cathode emission in ionization manometers. Prib. i tekh.eksp. 6 no.4:99-100 Jl-Ag '61. (MIRA 14:9)

(Manometer)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHOVSKI, B.

"Conference for Exchanging Experiences", P. 431. (GORSKO STOPANSTVO, Vol. 10, No. 9, Nov. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHOVSKI, B.

"Applying Labor Norms in the Sevlievo Forest Land Enterprise." p. 372. (GORSKO STOPANSTVO , Vol. 9, no. 8, Oct. 1953, Sofiya, Gulgaria.)

So: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954; Unclassified

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

ACC NR: AP7000350 SOURCE CODE: UR/0413/66/000/022/0115/0116

INVENTOR: Goron, I. Ye.; Baranov, Yu. A.; Dembinskiy, V. F.; Merkin, I. Kh.; Pankov, G. A.; Penchuk, N. V.; Smolyanitskiy, V. Z.; Volkov, Yu. D.

ORG: none

TITLE: Electromagnetic flaw detector. Class 42, No. 188737

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 115-116

TOPIC TAGS: flaw detector, magnetic flaw detector, magnetic field ~~configuration~~, ~~electromagnetic measuring device~~ flaw detection, electromeasuring device, electromagnetic device

ABSTRACT: This Author Certificate introduces an electromagnetic flaw detector containing 1) a primary magnetic flux conductor for magnetizing the inspected article, 2) a secondary magnetic flux conductor for duplicating the magnetic field configuration of the article surface, 3) generators with alternating magnetic field ensuring hysteresis-free transfer of the magnetic field configuration, and 4) magnetic recording heads. To inspect shaped articles, the conductor is clamped to the article with elastic rings stretched over the article. To maintain its cylindrical shape, the secondary conductor is enclosed in a vacuum shell. Orig. art. has: 1 figure.

SUB CODE: 14,09/SUBM DATE: 11Aug65/

Card 1/1 UDC: 620.179.14.08

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHUKOVA, V.M., studentka; TSFAS, B.S., dotsent, nauchnyy rukovoditel' raboty

Determining reactions in an advancing pair. Sbor.dokl.Stud. nauch.ob-va Fak.mekh.sel'.Kuib.sel'khoz.inst.no.1:36-38 '62. (MIRA 17:5)

1. Kuybyshevskiy sel'skokhozyaystvennyy institut.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

SKORIK, V.I.; KOCHETYGOV, N.I.; KONSTANTINOV, V.A.; FENSTER, G.S.; PENCHUK, V.M. (Leningrad)

Model of burn emaciation in laboratory animals. Pat. fiziol. i eksp. terap. 5 no.6:64-65 N-D '61. (MIRA 15:4)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.
(BURNS AND SCALDS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

GESHELE, E.E., doktor biolog. nauk, prof.; PENCHUKOVA, V.S.

Infection of wheat by common bunt. Agrobiologiia no.6:909-913 N-D '64. (MIRA 18:2)

1. Vsesoyuznyy selektsionno-geneticheskiy institut, g. Odessa.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHUL, A.; ALEKSANDROVA, L.

Use of a water-oil emulsion for protecting marine diesel engine cooling systems from corrosion. Mor. flot 18 no.7:16 Jl '58. (MIRA 11:7)

1. Nauchno-issledovatel'skiy institut goryuche-smazochnykh materialov.
(Marine diesel engines--Cooling)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

BUTKOV, N.A., prof.; VOLKOV, A.S., inzhener-kapitan 1-go ranga; OSIPOVA, L.M., inzh.; PENCHUL, A.F., kand.tekhn.nauk

Protection of cylinder bushings and internal combustion engine blocks against corrosion. Mor. sbor. 46 no.7:73-78 Jl '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCHUL, A.F.; VOLKOV, A.S.

Protecting wire tensometers from water at a higher temperatures.
Zav.lab. 26 no.3:379-380 '60. (MIRA 13:6)
(Strain gauges)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

CZECHOSLOVAKIA / Forestry. Forest Cultures. K

Abs Jour : Ref Zhur - Biologiya, No 18, 1958, No. 82219

Author : Pencik, Jan
Inst : Not given
Title : Planting in Little Holes and Chinks

Orig Pub : Lesn. práce, 1957, 36, No 10, 446-447

Abstract : The opinion is maintained that the best growth in plantings made in little holes (Czechoslovakia) continues only for the first years and then levels off with the growth of cultures in chink plantings. The advantage of the latter method is shown.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCIC, M.

AGRICULTURE

Periodical: POLJRIVREDA. Vol. 6, no. 9, Sept. 1958.

PENIC, M. Effect of the density of sowing on the yield and on some kinds of early oats. p. 30.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

CZECHOSLOVAKIA

PENCIK, Milan,

Institute of Microbiology, Faculty of Medicine, J.E.Purkyne University (Mikrobiologicky ustav lek. fakulty University J.E.Purkyne), Brno

Prague, Vnitrni lekarstvi, No 3, March 1966, pp 256-264

"Quantitative investigation of bacteriuria."

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

BURCAR, Andras, inz.; PENCIC, Nevenka, inz.

Experiences in the tests on maize with aminotriazines in the area of Backa Topola. Kem ind 12 no.5:387-392 My '63.

1. Poljoprivredna stanica, Backa Topola.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCIKS, A.; ENINA, G.; BERZINS, J.; ENDZELINA, M., red.; ENGERE,L., tekhn. red.

[Nervous diseases]Nervu slimibas. Riga, Latvijas Valsts izdevnieciba, 1961. 237 p. (MIRA 15:10)
(NERVOUS SYSTEM—DISEASES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCIU, P., dr.; ROZENBERG, Viorica, dr.

Research on the role of sanitary education in prevention and control of zoonoses. J. hyg. epidem. (Praha) 9 no.1:77-79 Ja-F '64

1. Institutul de igiena si protectia muncii, Sectia de educatie sanitara.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

STAN, I.; TOTH, S.; PENCIUC, T.; BATAGA, E.

Influence of the variation of the form of the earth on its one motion. Pt.2. Studia Univ B-B S. Math-Phys 9 no.2:77-81 '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

STAN, I.; TOTH, S.; PENCIUC, T.; BATAGA, E.

Influence of the variation of the form of the earth on its motion. Studia Univ B-B S. Math-Phys 9 no.1:105-109 '64.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCSEV, Peter [Penchev, Peter] (Szofia); DUDAS, Gyula, a foldrajzi tudomanyok kandidatusa [translator]; NAGY, Jozsefne [translator]

Hydrologic conditions for the utilization of the river waters in Bulgaria. Foldrajzi ert 11 no.4:447-477 '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

Pencus, M.

RENCUS, M.

RENCUS, M. Causes of damages in steam boilers. p. 226.

Vol. 7, no. 5, May 1956.
INDUSTRIA TEXTILA.
TECHNOLOGY
ROMANIA

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

LENDZION, Andrzej; PENCZEK, Bibianna; SKORA, Stanislaw

Epoxide resin adhesives modified with polyvinyl acetals. Polimery tworzywa wieloczast. 7 no.2:68-72 F '62

1. Instytut Tworzyw Sztucznych, Warszawa.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZAK, Tadeusz

Stickleback (Gasterosteus aculeatus L.) from Nova Scotia, Newfoundland and the French Island Saint-Pierre. Annales zool. 20 no.17:335-341 '62.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZAK, Tadeusz

Materials on the location of the forms of Gasterosteus aculeatus L. in Poland. Nauki matem przyrod Lodz no.14:111-121 '63.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZAK, Tadeusz

Regeneration of the lateral plates, fins, and spines of a stickleback (Gasterosteus aculeatus L.). Nauki matem przyrod Lodz no.7:123-139 '60.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZAK, Tadeusz

Do we know the real cause of Megaceros giganteus Blumb, the giant stag's having become extinct? Przegl zoolog 6 no.3:238,239,240 '62.

1. Katedra Zoologii Systematycznej, Uniwersytet, Lodz.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

S/081/62/000/024/026/052
B117/B186

AUTHORS: Czarnecki, Jerzy, Kwasnik, Jerzy, Lewinski, Tadeusz, Penczek, Piotr, Pyrko, Romuald

TITLE: Method for the production of nitrocellulose adhesives

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 892, abstract 24P559 (Zakłady Chemiczne "Pronit". Polish pat. 44675, May 17, 1961)

TEXT: Nitrocellulose (I) (nitrogen content 10.5 - 11 %) dehydrated with ethyl alcohol (II), concentration 80 - 90 %, or aqueous nitrocellulose containing ~30 % water, are used for producing adhesives. When using aqueous nitrocellulose, substances are added to the adhesive which either react with water or bind the adhesive in the form of crystal water ($MgSO_4$, Na_2SO_4, or $CaSO_4$). The total amount or part of (I) can be replaced by waste celluloid. The latter is first decomposed by boiling in water with pyridine or in pure water at 140°C under pressure. 94 % ethyl alcohol (II) containing benzene, toluene, and small amounts of ether, ketones, or high-boiling alcohols is used as a solvent for (I).

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

Method for the production of ...

The total amount of solvent is less than 30 %. 0.1 - 1 % of some resins soluble in a mixture of (II) and aromatic hydrocarbons as well as surface-active substances can be added to the adhesive, improving the solubility of (I) and the penetration of the adhesive into porous material. Adhesives containing sulfates are used for inflexible material such as floorings or in musical instruments. Adhesives without sulfate are used for leather, textiles, paper, wood, and porcelain. Fillers such as chalk, gypsum, or kaolin (2-8 parts per part of (I)) may be added to adhesives used for flooring. The above adhesive is less expensive and less toxic than nitrocellulose-base adhesives dissolved in ether or ketones. It can be used for gluing materials that contain nitrocellulose without softening. Nondehydrated nitrocellulose may be used for producing this adhesive. [Abstracter's note: Complete translation.]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

S/081/62/000/024/023/052
B117/B186

AUTHORS: Penczek, Piotr, Purko, Romuald

TITLE: Nitrocellulose adhesives

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 851, abstract 24P282 (Polimery, tworzywa wielkocząsteczkowe, v. 6, no. 12, 1961, 388 - 391 [Pol.; summaries in Eng. and Russ.])

TEXT: Requirements, properties, and principles of chosing raw material (nitrocellulose, softeners, solvents, diluents, stabilizers, and surface-active substances) for the production of nitrocellulose adhesives are given. The properties, methods of gluing, application and some recipes of nitrocellulose adhesives are described as well as the characteristics of five brands of adhesives produced by the "Pronit" chemical plant of the Polish People's Republic. The method of producing nitrocellulose adhesives patented in Poland (Patent of the Polish People's Republic 44675, RZhKhim, 1962, 24P559). A less expensive adhesive was obtained on the basis of NC_4 nitrocellulose mixed with ethyl alcohol and aromatic hydrocarbons. Non-dried nitrocellulose is used for producing the adhesive. The water is bound with anhydrous sodium or magnesium sulfates. [Abstracter's note:

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

Nitrocellulose adhesives

S/081/62/000/024/023/052
B117/B186

Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

S/081/63/000/003/033/036
B144/B186

AUTHORS: Brojer, Zbigniew, Łazowski, Zbigniew, Penczek, Pietr

TITLE: Method of obtaining thermoreactive compounds from epoxy and novolak resins

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 616, abstract 3T225 (Polish patent 45738, March 20, 1962)

TEXT: A method is patented for obtaining thermoreactive epoxy-novolak compounds (I) from epoxy resins (II) and from phenol formaldehyde novolak resins (III). The molecule of II contains > 1 epoxy group and has an epoxy number ≥ 0.1 g-equiv per 100 g resin. The molecule of III contains >2 phenol groups. Amines with the structure $C_6H_5N(R)(R')$ were used as catalysts, where R and R' are the same or different alkyl radicals. Per 100 parts by weight II, 30 - 300 parts by weight III are used. The catalyst quantity is 0.01 - 5 parts by weight per 100 parts by weight of a mixture of II and III. The optimum curing temperature is 150 - 200°C. When I are obtained, no water separates. I has a low shrinkage, good electric properties and can be kept at ~20°C for some months without

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

Method of obtaining ...

deterioration of the properties. It is used for producing articles of laminated plastics (based on mineral or organic fiber filler), plastics (with mineral or organic fillers), glues (in the form of solutions), as well as molded articles. The articles have a high thermal stability and good physical and mechanical properties. The cost of I is relatively low. Example: - I for molding is obtained from (in parts by weight): II (low-molecular with epoxy equivalent ~0.5 g-equiv per 100 g resin) 100, III 100, dimethyl aniline 0.2. Dimethyl aniline is added to III and heated under stirring to 140°C. II is heated seaparately to 140°C. The two resins are mixed and the air is removed in vacuo. I is obtained, from which articles are molded. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZEK, P.

"Reinforced polyesters in the ship-building industry" by M. Berger, W. Krolikowski, G. Mizgier. Reviewed by P. Penczek. Polimery 7 no.3:110-111 Mr '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZEK, Piotr

Terpene reaction products with maleic anhydride as hardeners of epoxide resins. Polimery tworz wielk 7 no.6:210-215 Je '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

PENCZEK, Piotr

Properties of the Polymal 130 polyester resin with increased thermal resistivity. Polimery tworz wielk 7 no.11:419-420 N '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

G/004/62/009/006/003/007
D029/D109

15.2540

AUTHORS: Klosowska, Z., Graduate Engineer, Ostrysz, R., Graduate Engineer, and Penczek, P., Graduate Engineer

TITLE: Influence of end groups in unsaturated polyester resins on the latter's dielectric properties

PERIODICAL: Plaste und Kautschuk, v. 9, no. 6, 1962, 267-269

TEXT: Dielectric properties of polyester resins are described only fragmentarily in literature. The authors investigated the dielectric properties of three varieties of the hard, highly unsaturated resin "Polimal 109" and the elastic, little-unsaturated resin "Polimal 150" of Polish production. The three varieties were: I) with a preponderantly high content of carboxyl end groups, II) with a preponderantly high content of hydroxyl end groups, and III) with approximately equally high contents of both types of end groups. Heating (150 h) of the hardened elastic resins at 90°C improves the dielectric properties. Further heating (another 150 h) does not improve such properties. The heating results in a decrease of the elasticity. The resin in

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239920005-0

BROJER, Zbigniew; PENCZEK, Piotr; PENCZEK, Stanislaw

Epoxy resins from nonsaturated compounds; their synthesis and properties. Pt. 1. Przem chem 41 no.8:437-440 Ag '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

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PENCZEK, Piotr; ROZWADOWSKA, Anna'

Properties of the system: Cellulose nitrates-ethyl alcohol-ethyl ether. Przem chem 41 no.8:451-454 Ag '62.

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BROJER, Zbigniew; PENCZEK, Piotr; PENCZEK, Stanislaw

Epoxy resins from nonsaturated compounds; synthesis and properties. Pt. 2. Przem chem 41 no.12:684-687 D '62.

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PENCZEK, P.

Cast resins as dielectrics as subject of a seminar in Breslau, September 21-22, 1963. Polimery tworz wielk 8 no.12:483-484 D'63.

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PENCZEK, Stanislaw

Prospects for ionic polymerization. Pt.1. Polimery tworz wielk 9 no.11:454-458 N '64.

1. Department of Polymerization of the Institute of Plastics, Warsaw.

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PENCZEK, Stanislaw

Prospects of ionic polymerization. Pt.2. Polimery tworz wielk 9 no.12:503-506 D '64.

1. Department of Polymerization of the Institute of Plastics, Warsaw.

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P/016/62/000/011/001/006
D204/D307

AUTHOR: Penczek, Stanisław, Master of Science, Engineer (see Association)

TITLE: Ionic and stereospecific polymerization of organic oxides Part I. Anionic polymerization of α - oxides

PERIODICAL: Wiadomości Chemiczne, no. 11, 1962, 643-658

TEXT: The present paper constitutes a review (1863 - 1962), based on 54 Western and 4 Soviet-bloc references, and is aimed at presenting the fundamental problems and some perspectives in this field. After a summary of the earlier work, the nature, effects and preparation of catalysts (alkali metals, amines, sodamide, ZnO, CaO, SrO, $SrCO_3$, $Be(OH)_2$, $Mg(OH)_2$ etc.) are briefly described. Attention is focused on the hydroxides and alkoxides of the alkali metals, and the simple mechanism of Krylov and Sinyak (Vysokomolekularnyye soyedineniya, 1961, 3, 898) and of Gee et. al. (J. Chem. Soc., 1959, 1341) for the

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P/016/62/000/011/001/006
D204/D307

Ionic and stereospecific ...

polymerization of ethylene oxide catalyzed by alkoxides is quoted. Confirmations of this mechanism and the deviations observed are described and discussed. A short account is given of the polymerization of propylene oxide with solid KOH, in view of the possibility of stereospecific polymerization and the potential application of the resulting polyethers to the production of polyurethanes. Reaction mechanisms proposed by Price and by Simons and Verbane are compared, favoring the latter. The reaction mechanism suggested by Szwarc for the Na naphthalene-catalyzed polymerization of ethylene oxide is given. It is concluded that, in the majority of cases, in the presence of basic catalysts the epoxide ring of the (unsymmetrical) cyclic ether is broken to give an anion connected to the secondary rather than the primary C atom; the resultant chain is therefore composed of units arranged in a head-to-tail manner. Pure stereo-isomers thus polymerize to crystalline, optically active materials, unless the catalyst causes an inversion. There are 2 tables.

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P/016/62/000/011/001/006
Ionic and stereospecific ... D204/D307

ASSOCIATION: Head of: Zakład Polimeryzacji w Instytucie Tworzyw Sztucznych, Warsaw (Polymerization Establishment of the Institute of Synthetic Materials, Warsaw)

SUBMITTED: May 12, 1962

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Epoxy resins from nonsaturated compounds; synthesis and properties. Pt. 2. Przem chem 41 no.12:684-687 D '62.

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P/016/62/000/012/001/003
D204/D307

AUTHOR: ~~Penczek, Stanisław,~~ Master of Science, Engineer (see Association)

TITLE: Ionic and stereospecific polymerization of organic oxides. Part II. Cationic and stereospecific polymerization of α-oxides

PERIODICAL: Wiadomości Chemiczne, no. 12, 1962, 717-739

TEXT: The present work is a continuation of an earlier review (this periodical, no. 11, 1962, 643) concerned with the anionic polymerization of α-oxides. A brief summary is first given of the general characteristics of polymerization over $SnCl_4$, BF_3, $BF_3 \cdot OEt_2$, $TiCl_4$, $SbCl_5$, $AlCl_3$, $ZrCl_4$, $FeCl_3$ and similar catalysts, focussing the attention on systems ethylene oxide/$SnCl_4$ and α-oxides /BF_3, basing the discussion on Western work. A detailed account is given of the stereospecific polymerization of propylene oxide, comparing the effects of basic (KOH) and acidic ($FeCl_3$) catalysts. These

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Ionic and stereospecific ... P/016/62/000/012/001/003
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results are discussed, concentrating on the structures and properties of the remaining polymers, on the kinetics, and on the probable mechanism of the reaction with $FeCl_3$. The catalytic action (for the stereospecific polymerization) of the alkoxides of the IIIrd group metals (chiefly Al) is indicated, and that of organometallic compounds is treated in greater detail. It is concluded that the characteristics of the ionic polymerization of α-oxides over anionic, cationic, and coordinated catalysts are widely variable, and that the proposed mechanisms are only broad approximations, except in the simplest systems. Insufficient data are available to allow a general set of rules to be established; one point in common appears however to be the formation of the ionic (Metal ($\delta+$) - O ($\delta-$)) bonds. Formation of a crystalline polymer from an oxide containing an asymmetric C atom may be due to steric hindrance, exerting an unusally pronounced effect when more than 1 chain are growing from a metallic atom, and may be facilitated by the presence of a solid phase possessing specific, so far unknown, characteristic. There are 1 table and 33 references: 2 Soviet-bloc and 31 non-Soviet-bloc.

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ASSOCIATION: Head of: Zakład Polimeryzacji w Instytucie Tworzyw Sztucznych, Warsaw (Polymerization Establishment of the Institute of Synthetic Materials, Warsaw)

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S/190/63/005/002/024/024
B101/B102

AUTHORS: Penczek, S., Vansheydt, A. A.

TITLE: Polymerization of bicyclic oxethanes and properties of the polymers

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 2, 1963, 296-301

TEXT: The polymerization of 3,3-dimethylene oxethane (I) and 3,3-pentamethylene oxethane (II) is discussed. The polymerization of I was easy and gave a yield of 86% when BF_3 gas acts at -78°C on I dissolved in CH_2Cl_2; concentration of I 4.3 mole/l, concentration of BF_3 0.15 mole/l. The polymer was readily soluble, except in methanol and water. Its intrinsic viscosity was 1.06 dl·g^{-1} in toluene and the number-average molecular weight was ~100,000. Contrary to the data of T. W. Campbell, V. S. Foldi (J. Organ. Chem., 26, 4654, 1961) its melting point was 69.6-73°C. Films of the polymer showed birefringence. It was evident from the IR spectrum that the oxethane group had disappeared after polymeri-

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B101/B102

Polymerization of bicyclic ...

zation but that the cyclopropane rings were not changed by polymerization. This resulted in the structure:

$$-\left[CH_2-C\begin{array}{l}CH_2\\ \diagup\ \diagdown\\ CH_2\end{array}CH_2-O\right]_n-$$

In the cold, bromine adds easily to poly-I which moreover reacts readily in the way characteristic of the cyclopropane ring. Mostly this is connected with a degradation of the polymer, e.g., in the addition of Br. The formation of high-molecular I and its degradation in the presence of BF_3 (in the absence of the monomer) confirms the oxonium mechanism of the polymerization. The polymer of II was obtained under the same conditions as that of I. Its intrinsic viscosity was $\geq$1.0, m.p. 153-158°C. The X-ray patterns and thermomechanical curves proved the crystallinity of the polymers of I and II. The polymerization rate (% per min) was for I thus significantly higher than that of 3,3-bis- polymerization

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PENCZEK, Stanislaw

Thermoplastic polyether, Hercules powder. Przem chem 41 no.8:427-431 Ag '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

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